

CLAIMS

1. A mobile station which communicates with a base station by using direct sequence system, comprising:

5 a special call part to request to initiate a special call; and

a mobile station side transmission part, in response to a request from the special call part, to generate a special radio wave signal of high power spectrum density and transmit it to the base station.

10 2. The mobile station of claim 1 comprising a spread modulation part to perform spread modulation of an information signal, wherein

the mobile station side transmission part generates the special radio wave signal of high power spectrum density by bypassing the spread modulation part.

15 3. The mobile station of claim 1, wherein

the mobile station side transmission part includes a special code generation part to generate a special code of a direct-current component, and a spread modulation part to perform spread modulation of an information signal by using the special code generated by the special code generation part, and

20 the mobile station side transmission part generates the special radio wave signal of high power spectrum density by performing spread modulation of the information signal by using the special code of the direct-current component.

4. The mobile station of claim 2 or 3 further including a communication control part to restrict

25 a bit rate of the information signal to be low when the mobile station side transmission part

generates the special radio wave signal, in order to increase power spectrum density of the special radio wave signal by restricting the bit rate to be low.

5. The mobile station of claim 1, wherein

5 the mobile station side transmission part performs communication by using the special radio wave signal until a session with the base station is established.

6. The mobile station of claim 1, wherein

10 the mobile station side transmission part generates the special radio wave signal of same power as power used in the direct sequence system, and of a narrower band than a band used in the direct sequence system.

7. A communication control method for a mobile station side to communicate with a base station by using direct sequence system, comprising:

15 requesting to initiate a special call; and

in response to the requesting to initiate the special call, generating a special radio wave signal of high power spectrum density and transmitting it to the base station.

8. A base station which communicates with a plurality of mobile stations by using direct sequence system, comprising:

20 a base station side reception part to receive a special radio wave signal of high power spectrum density from the plurality of mobile stations;

a detection part to detect whether the base station side reception part received the special radio wave signal; and

25 a base station side transmission part to transmit an assignment signal for assigning a

channel to a mobile station which had transmitted the special radio wave signal detected by the detection part.

9. The base station of claim 8, wherein

5 the base station side reception part includes a special signal reception part to receive the special radio wave signal to acquire an information signal without performing spread demodulation.

10. The base station of claim 8, wherein

10 the base station side reception part includes a special signal reception part to receive the special radio wave signal and to acquire an information signal by performing spread demodulation of the special radio wave signal by using a special code of a direct-current component.

15 11. A communication system where a base station and a plurality of mobile stations communicate using direct sequence system, comprising:

the plurality of mobile stations, each including

a special call part to request to initiate a special call, and

a mobile station side transmission part, in response to a request from the special call part,

20 to generate a special radio wave signal of high power spectrum density and transmit it to the base station; and

the base station including

a base station side reception part to receive the special radio wave signal of high power spectrum density from the plurality of mobile stations,

25 a detection part to detect whether the base station side reception part received the special

radio wave signal, and

a base station side transmission part to transmit an assignment signal for assigning a channel to a mobile station which had transmitted the special radio wave signal detected by the detection part.

5

12. A communication control program, having computer executable processing, for a mobile station side to communicate with a base station by using direct sequence system, comprising:

processing of requesting to initiate a special call; and

10 in response to the requesting to initiate the special call, processing of generating a special radio wave signal of high power spectrum density and transmitting it to the base station.

13. A communication control program, having computer executable processing, for a base station side to communicate with a plurality of mobile stations by using direct sequence

15 system, comprising:

processing of receiving a special radio wave signal of high power spectrum density from the plurality of mobile stations;

processing of detecting whether the special radio wave signal was received; and

20 processing of transmitting an assignment signal for assigning a channel to a mobile station which had transmitted the special radio wave signal detected.